

## PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Atty. Dkt. No. 03.09.17.1  
Edward E. Miller )  
 ) Art Unit: 1713  
Serial No. 10/789,207 ) Examiner: Robert D. Harlan  
Filing Date: 2/27/2004 )  
Title: ) Duncan, Oklahoma 73534  
 )  
 )  
WATER CONTROL IN A )  
SUBSURFACE FORMATION ) Date: February 27, 2007

RESPONSE TO OFFICE ACTION

Commissioner For Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

This is in response to the Final Action mailed January 26, 2007.

## IN THE CLAIMS

A. Please amend claim 1 as follows:

1. A method of making a gel which is not water soluble comprised of making a water  
soluble polymer of an acrylic acid compound comprising:  
combining an acrylic acid compound with a reactant selected from the group consisting  
of a divalent metal salt of said acrylic acid compound, a monovalent metal salt of said acrylic  
acid compound and mixtures thereof to form a polymer precursor,  
combining a polymerization initiator with said precursor [and],  
permitting said precursor to form said water soluble polymer[;], and  
combining said water soluble polymer with a cross linking agent to form said gel;

wherein

said polymer precursor contains in the range of from about 0.65 to about 2.75 units of